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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,729	03/22/2004	Phillip Andrew Porras	SRI/3928-9	9573
52197 PATTERSON	7590 12/18/2007 & SHERIDAN, LLP	EXAMINER		
SRI INTERNA	TIONAL	HOFFMAN, BRANDON S		
595 SHREWSBURY AVENUE SUITE 100			ART UNIT	PAPER NUMBER
SHREWSBUR	Y, NJ 07702	2136		
			MAIL DATE	DELIVERY MODE
			12/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



Office Action Summary    Total Content   Examiner   Examiner   Examiner   Art Unit   Exa		Application No.	Applicant(s)				
Brandon S. Hoffman 2136  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION		10/805,729	PORRAS ET AL.				
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3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 10-25-04 & 04-27-06.  5) Notice of Informal Patent Application 6) Other:			atent Application				

Application/Control Number: 10/805,729 Page 2

Art Unit: 2136

#### **DETAILED ACTION**

1. Claims 1-20 are pending in this office action.

2. Applicant's arguments, filed October 12, 2007, have been fully considered but they are not persuasive.

#### Information Disclosure Statement

3. The information disclosure statements (IDS's) submitted on October 25, 2004, and April 27, 2006, are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### Claim Rejections

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 102

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by <u>Vaidya</u>
 (U.S. Patent No. 6,279,113).

Art Unit: 2136

Regarding <u>claims 1, 19, and 20, Vaidya</u> teaches a method/computer-readable medium/apparatus for performing network surveillance, said method comprising the steps of:

- Receiving a plurality of network packets handled by a network entity (col. 5, lines 26-46);
- Building at least one statistical profile from at least one measure of said plurality of network packets (col. 6, lines 1-11); and
- Analyzing said at least one statistical profile to detect suspicious network activity
   (col. 6, lines 11-26).

Regarding <u>claim 2</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors data transfers by monitoring network packet data transfer commands (col. 5, lines 33-39, data transport).

Regarding <u>claim 3</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors data transfers by monitoring network packet data transfer errors (col. 5, lines 33-39, unauthorized attempts to access network objects).

Regarding <u>claim 4</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors data transfers by monitoring network packet data transfer volume (col. 5, lines 33-39).

Art Unit: 2136

Regarding <u>claim 5</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors network connections by monitoring network connection requests (col. 7, lines 33-36).

Regarding <u>claim 6</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors network connections by monitoring network connection denials (col. 5, lines 33-39, attempted delivery of malicious data packets).

Regarding <u>claim 7</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors network connections by monitoring a correlation of network connection requests and network connection denials (col. 5, lines 33-39 and col. 7, lines 33-36).

Regarding <u>claim 8</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors errors by monitoring at least one error code included in a network packet, wherein said at least one error code comprises a privilege error code or an error code indicating a reason a packet was rejected (col. 5, lines 33-39, unauthorized attempts to access network objects).

Regarding <u>claim 9</u>, <u>Vaidya</u> teaches further comprising the step of responding based on determining whether said at least one statistical profile indicates suspicious network activity (fig. 3, ref. num 66).

Art Unit: 2136

Regarding claim 10, Vaidya teaches wherein said responding step comprises

transmitting an event record to a network monitor (col. 7, lines 52-67).

Regarding claim 11, Vaidya teaches wherein said transmitting the event record to

a network monitor step comprises transmitting the event record to a hierarchically

higher network monitor (col. 5, lines 47-51).

Regarding claim 12, Vaidya teaches wherein said transmitting the event record to

a network monitor step comprises transmitting the event record to a network monitor

that receives event records from a plurality of network monitors (fig. 1, ref. num 12).

Regarding claim 13, Vaidya teaches wherein said network monitor that receives

event records from said plurality of network monitors comprises a network monitor that

correlates activity in said plurality of network monitors based on said received event

records (col. 5, lines 26-46).

Regarding claim 14, Vaidya teaches wherein said responding step comprises

altering said analysis of said plurality of network packets (col. 7, lines 31-45).

Regarding claim 15, Vaidya teaches wherein said responding step comprises

severing a communication channel (col. 6, lines 21-26).

Art Unit: 2136

. . . .

Regarding <u>claim 16</u>, <u>Vaidya</u> teaches wherein said network entity comprises at least one of a gateway, a router, a proxy server, a firewall, and a virtual private network (VPN) entity (fig. 1, ref. num 20).

Regarding <u>claim 17</u>, <u>Vaidya</u> teaches wherein said plurality of network packets are partitioned into a plurality of sessions representing a communication transaction between two hosts (col. 7, line 52 through col. 8, line 15).

Regarding <u>claim 18</u>, <u>Vaidya</u> teaches wherein said at least one measure monitors network connections by monitoring a source port number and a destination port number included in one of said network packets (col. 2, lines 15-30).

# Response to Arguments

6. Applicant argues that Vaidya does not teach building a statistical profile and analyzing the statistical profile to detect suspicious network activity (page 7).

Regarding applicant's arguments, examiner disagrees. While it is true that Vaidya never mentions "statistical" or any other variation, according to applicant, Vaidya does teach the idea of building a profile from monitored data, and using that profile to detect suspicious network activity. Column 9, lines 3-20, shows

If the server is being monitored, in step 100 a session list in the state cache 44 is searched for a matching entry. Application information and the server IP address extracted from the packet into the register cache 40 are used to calculate a hash index, and the hash index is used to search for a matching entry from the session list. In step 102, it is determined whether a matching session entry

Art Unit: 2136

was found. If a matching session entry is found, the entry is returned to the virtual processor 36 in step 104. The session entry might contain a record of timer/counter expressions executed on packets associated with the application session. For instance, the entry might reflect that within the application session a particular file within the application has been accessed ten times in the past twenty minutes. The virtual processor 36 uses this timer/counter information to determine whether a network intrusion is associated with the particular packet. The state cache 44 is also utilized to create a record of executed expressions in a sequential attack signature profile.

This shows that a record is created based on monitored activities (in this case, the number of accesses of a file within a given time period) and the monitored activities indicate if a network intrusion is taking place.

#### Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2136

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon S. Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brandon Hoffman/

BH

NASSER MOAZZAMI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100

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